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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/699,569	10/30/2003	Robert Donald Villwock	1001-002-CIP	1587	
7590 04/19/2005			EXAM	EXAMINER	
Kristin C. Castle			WYROZEBSKI LEE, KATARZYNA I		
Suite 100 11231 Gold Express Drive			ART UNIT	. PAPER NUMBER	
Sacramento, CA 95670			1714		
			DATE MAILED: 04/19/2005		

Please find below and/or attached an Office communication concerning this application or proceeding.

*	Application No.	Applicant(s)					
	10/699,569	VILLWOCK ET AL.					
Office Action Summary	Examiner	Art Unit					
	Katarzyna Wyrozebski	1714					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
A SHORTENED STATUTORY PERIOD FOR THE MAILING DATE OF THIS COMMUNICA - Extensions of time may be available under the provisions of 3 after SIX (6) MONTHS from the mailing date of this communic if the period for reply specified above is less than thirty (30) did if NO period for reply is specified above, the maximum statuto Failure to reply within the set or extended period for reply will, Any reply received by the Office later than three months after earned patent term adjustment. See 37 CFR 1.704(b).	ATION. 7 CFR 1.136(a). In no event, however, may a recation. ays, a reply within the statutory minimum of thirt by period will apply and will expire SIX (6) MON by statute, cause the application to become AB	eply be timely filed ty (30) days will be considered timely. ITHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).					
Status							
1) Responsive to communication(s) filed of	on .						
• •	☐ This action is non-final.						
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is							
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims							
4)⊠ Claim(s) <u>1-31</u> is/are pending in the app	lication.	,					
	4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.	Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-31</u> is/are rejected.							
7) Claim(s) is/are objected to.	Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction	n and/or election requirement.						
Application Papers							
9)☐ The specification is objected to by the E	xaminer.						
10) The drawing(s) filed on is/are: a)		by the Examiner.					
Applicant may not request that any objectio							
Replacement drawing sheet(s) including the	e correction is required if the drawing((s) is objected to. See 37 CFR 1.121(d).					
11)☐ The oath or declaration is objected to by	the Examiner. Note the attached	I Office Action or form PTO-152.					
Priority under 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for a) All b) Some * c) None of:	foreign priority under 35 U.S.C. §	119(a)-(d) or (f).					
_ ,	1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No							
3. Copies of the certified copies of t							
application from the International		•					
* See the attached detailed Office action for	or a list of the certified copies not	received.					
	•						
	•						
Attachment(s) 1) Notice of References Cited (PTO-892)	۸□ ۸	(DTO 440)					
 Notice of References Cited (P10-892) Notice of Draftsperson's Patent Drawing Review (PT0- 	4) ∐ Interview S 948) Paper No(s	ummary (PTO-413) s)/Mail Date					
 Information Disclosure Statement(s) (PTO-1449 or PTO Paper No(s)/Mail Date 		nformal Patent Application (PTO-152)					

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Claims of the present invention have been renumbered per rule 123 to claims 1-31.

Double Patenting

1. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. See *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and, *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.130(b).

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

2. Claims 1-31 are provisionally rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1-32 of copending Application No. 10/699590 ('590). Although the conflicting claims are not identical, they are not patentably distinct from each other because of the following explanation.

Co-pending invention '590 teaches the same process steps as those of the present invention, with exception of the solvent utilized in the dissolution step. Solvent in co-pending application '590 is an aprotic solvent, which is also a functional equivalent of the DMSO solvent

in the invention at hand. Since independent claims of the present invention are generic with respect to the solvents utilized, the co-pending invention encompasses the present.

This is a <u>provisional</u> obviousness-type double patenting rejection because the conflicting claims have not in fact been patented.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 4. Claims 1, 3, 5, 24, 26, 28, 29 are rejected under 35 U.S.C. 102(b) as being anticipated by BOUTLE (US 4,157,424).

The prior art of BOUTLE discloses removal of particulate such as sodium chloride filler or PVC polymer from polyurethane by dissolving polyurethane in the solvent such as DMF or DMSO. Next water (a non solvent for PU) is added to afford precipitation of the polyurethane. Particulate fillers are removed and solvent is evaporated. Since PVC does not dissolve in water its removal is warranted by filtration.

In the light of the above disclosure, the prior art of BOUTLE anticipates claims rejected above.

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Claim Rejections - 35 USC § 103

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- 5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 6. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).
- 7. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later

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invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

8. Claims 2, 4, 12, 16-20, 25, 27 rejected under 35 U.S.C. 103(a) as being unpatentable over BOUTLE (US 4,157,424) in view of JP 50-149768 (pending translation).

The prior art of BOUTLE discloses removal of particulate such as sodium chloride filler or PVC polymer from polyurethane by dissolving polyurethane in the solvent such as DMF or DMSO. Next water (a non solvent for PU) is added to afford precipitation of the polyurethane. Particulate fillers are removed and solvent is evaporated. Since PVC does not dissolve in water its removal is warranted by filtration.

The difference between the present invention and the disclosure of BOUTLE is recitation of using polyurethane as adhesive and heat treatement of the solution of polyurethane.

With respect to the above difference, JP prior art teaches that PU in solution is utilized as an adhesive or binder. PU is pretreated with heat in order to render it reactive and cure.

In the light of the above disclosure it would have been obvious to one having ordinary skill in the art at the time of the instant invention to utilize heat treatment of PU waste to render it reactive and thereby use it as adhesive. Such process has already been disclosed.

9. Claims 6-15, 21-31 are rejected under 35 U.S.C. 103(a) as being unpatentable over BOUTLE (US 4,157,424) in view of JP 50-149768 (pending translation) as applied to claims 1-5, 24-29 above, and further in view of DIETRICH (US 3,939,222).

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The discussion of the disclosure of the prior art of BOUTLE and JP'768 from paragraphs above are incorporated here by reference.

The difference between the present invention and the prior art above is recitation of different drying processes.

The prior art of DIETRICH teaches that to obtain polyurethane for coatings onto a substrate, drying methods such as freeze drying or spray drying of PU particulates is well known in the art.

In the light of the above disclosure, it would have been obvious to one having ordinary skill in the art at the time of the instant invention that use of spray drying or freeze drying processes would afford particulates suitable for coatings, wherein coating of the surface encompass adhesive coatings.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Katarzyna Wyrozebski whose telephone number is (571) 272-1127. The examiner can normally be reached on Mon-Thurs 6:30 AM-4:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Vasu Jagannathan can be reached on (571) 272-1119. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Katarzyna Wyrozebski

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April 14, 2005